



PATENT  
Attorney Docket No.: 16869G-087100US  
Client Reference No.: 340201702US01

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

KAZUE KUDO et al.

Application No.: 10/665,910

Filed: September 18, 2003

For: MAGNETIC HEAD AND  
METHOD FOR PRODUCTION  
THEREFOR

Confirmation No. 7077

Examiner: Kevin M. Bernatz

Technology Center/Art Unit: 1773

DECLARATION UNDER 37 CFR 1.132

**Box AF**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

KAZUE KUDO declares that:

1. I am the co-inventor of and am familiar with the above-identified U.S. Patent Application.
2. I received a B.S. degree in Chemical Engineering from Hokkaido University in 1985. From April 1, 1985 to March. 20, 1993, I was employed as a researcher at the Hitachi Research Laboratory of Hitachi, Ltd. From March. 21, 1993 to August. 20, 2002, I was employed as a researcher at the Central Research Laboratory of Hitachi, Ltd. From Aug. 21, 2002 to March 31, 2003, I worked as an engineer in Data Storage Systems Division, which was Hitachi, Ltd's division dealing with storage products. From April 1, 2003 to the present date, I have been employed as an Engineer at Head & Media Business Unit of Hitachi Global Storage Technologies Japan, Ltd. During my whole working career I have been involved in the magnetic head technology.
3. Under my direction and control, experiments were performed involving the pH used as a plating bath for forming a magnetic layer by electroplating. Graph 1 is a plot

of the thickness of smooth surface formed by electroplating as a function of pH used as a plating bath, showing that in order to achieve a magnetic layer having enough thickness of smooth surface plating bath used for electroplating should be pH value of 2 or less.

4. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

*Kazue Kudo*

KAZUE KUDO

February 20, 2006  
Date